














120kW Free Standing DC Fast Charger



Features

-  Combined Charging Systems (CSS)
-  4G and Ethernet Connectivity
-  User Authentication: RFID
-  Optional Cable Management Accessories
-  Supports Smart Charging and Load Balancing
-  Efficiency > 94%
-  PF > 0.99 (APFC)
-  Customization Available
-  7-inch LCD Screen with User Friendly Interface
-  IK10 (Not including screen and RFID module), IP55, NEMA 3R
-  OCPP 1.6 JSON (Upgradeable to 2.0)

Cable Management

Optional Cable Management accessories.



Applications

- Parking Garages
- Commercial Fleet Operators
- EV Dealer Workshops
- EV Infrastructure Operators and Service Providers
- Gas/Service Stations

SemaConnect 120kW DC Charging Station Technical Specification

Configuration

Number of Ports	Two
Credit Card Reader	Optional - Magnetic, EMV and Contactless (coming soon)

Electrical Specification – DC Output

Power	120 kW Max
Current	200A@500Vdc
Voltage	150 ~ 950 VDC
Connector Type	CCS1
Charging Interface	DIN 70121, ISO15118

Electrical Specification – AC Input

Power	129 kVA Max
Current	3-phase: 155A Max
Voltage	3-phase: 277Y/480Y VAC
Frequency	50/60 Hz
Power Factor	> 0.99

Safety Specification

Input Protection	Over/under voltage, over current, over power, over temperature and surge protection
Output Protection	Over/under voltage, over-current, over temperature and short-circuit protection
Internal Protection	Over temperature detection, AC contactor detection, DC contactor detection, Fuse detection
Safety and EMI Compliance	UL 2202, UL 2231-1, UL 2231-2
EMI Compliance	FCC Part 15 Class A

Network Specification

Data Communication	Cellular 4G LTE/Wi-Fi/Ethernet (Wi-Fi coming soon)
Communication Protocol	Ocpp Compliant
Firmware Management	Over-the-Air (OTA) update enabled

User Interaction Specification

Display	7" LCD
RFID Reader	ISO14443 Type A & B, MiFare, Felica; ISO15693

Environmental Specification

Enclosure	NEMA 3R / IP55, outdoor rated
Operating Humidity	Up to 95% non-condensing
Operating Temperature	-30 C~50 C (-22oF ~ +122oF)
Operating Altitude	≤ 2000m (6562ft)
Cooling Method	Forced air

Mechanical Specification

Dimensions	(74.80" H x 31.50" W x 25.59" D) ±1%
Approximate Weights	≤ 420kg (926lbs) ±1%
Mounting Option	Stand alone
Cable Length	16 ft standard, 23ft optional
Cable Organizer	Optional